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May 15, 1986

Mr. Joseph Mikulka, Chief
Department of Environmental Protection
Division of Water Resources
1259 Route 46 East
Parsippany-Troy Hills, NJ 07054

RE: L.E. Carpenter and Company
Administrative Consent Order

Dear Mr. Mikulka:

Enclosed please find a copy of the summary for the on-site activities during the month of April, 1986. The same is being filed in accordance with the above Administrative Consent Order.

Should you have any questions, please feel free to contact me at your earliest convenience.

Very truly yours,

THEODORE A. SCHWARTZ

TAS/mjp
Enclosure
cc: Mr. Robert G. Kunzel w/o enc.
Mr. Frank Aron w/o enc.

GeoEngineering, Inc.
Consultants in Groundwater Control

100 Ford Rd. Denville, N.J. 07834 (201) 625 0700

May 14, 1986

L. E. Carpenter and Company
170 North Main Street
Wharton, NJ 07885

ATTN: Mr. Frank Aron

SUBJ: Monthly Progress Report
Groundwater Decontamination Program

Gentlemen:

This report summarized on-site activities during the month of April 1986.

The AUTO-SKIMMER was located at Well No. 10 for the entire month. A total of 6.7 gallons were recovered from Well No. 10. The total recovered since operations began is 2889.3 gallons.

The attached Figures 1 and 2 show the piezometric water level contours and calculated thickness of solvent saturated soil on April 29, 1986. The contours of Figure 2 are derived from the measured thickness of solvent in individual wells. Because the AUTO-SKIMMER was operating in Well No. 10, the measured thickness does not represent a static equivalent. Therefore, the contours are distorted in the vicinity of Well No. 10.

The foregoing is a condensed summary of activities for the month. Should further detail or any clarification be required, we shall respond promptly to your request.

Sincerely,

GEOENGINEERING, INC.

Robert G. Kunzel
Associate

RGK/avm
Enclosures
cc T. A. Schwartz, Esq. (2)

TABLE A

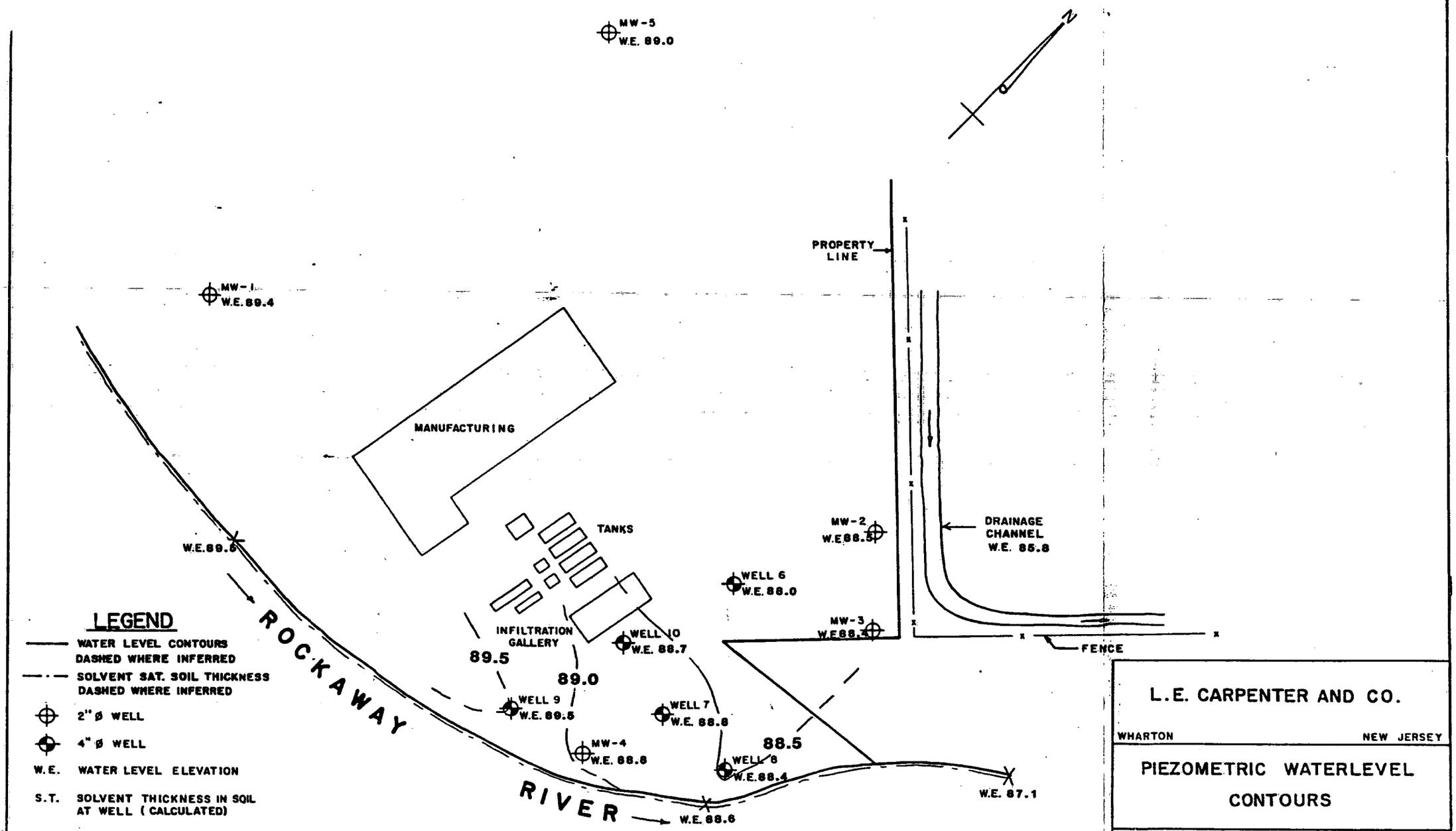
Solvent Thickness and Piezometric Elevations

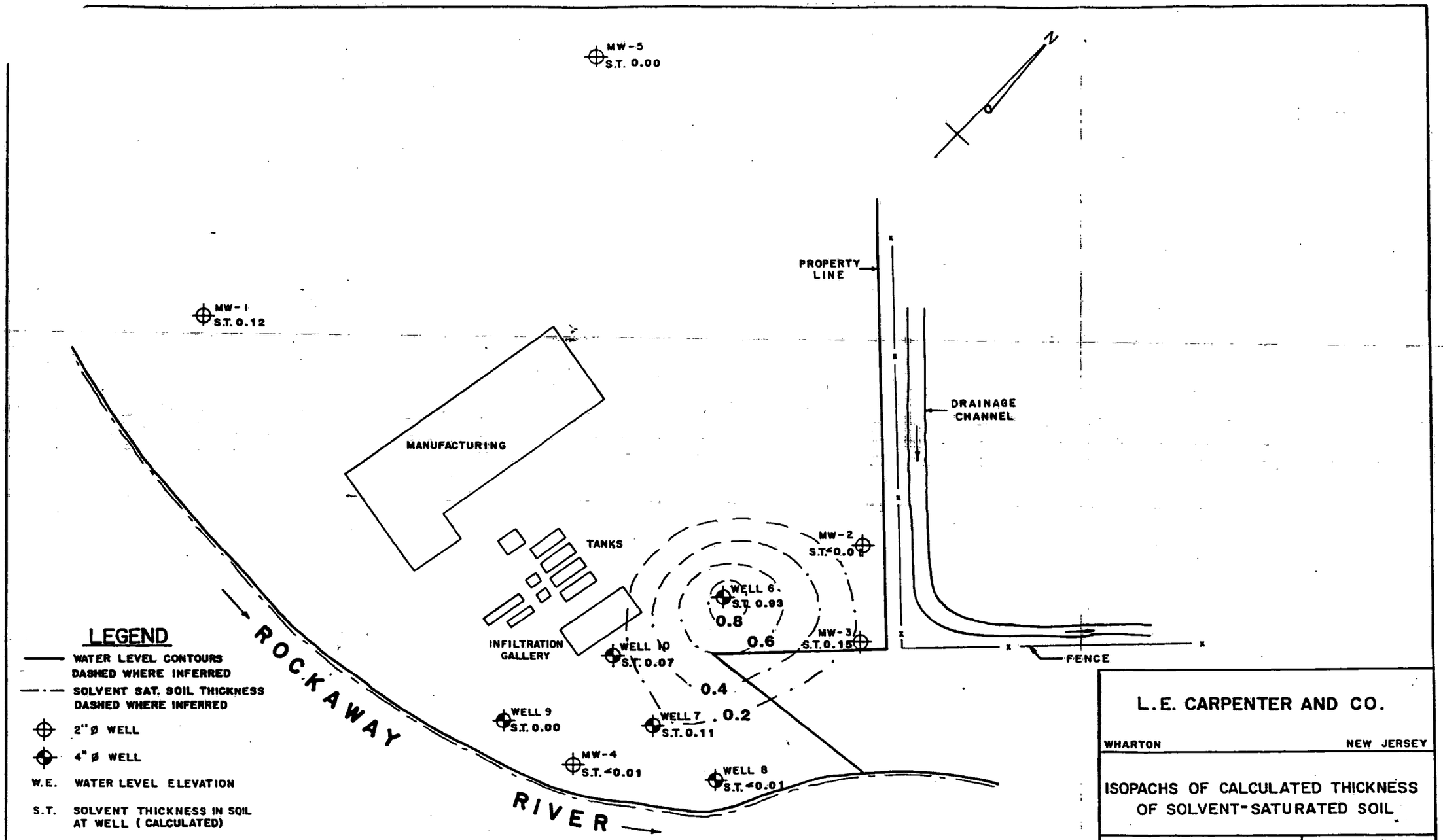
on 02/27/86

Well No.	Piezometric Surface Elevation	Measured Solvent (MW) Thickness (ft)	Calculated Solvent Thickness in Soil
1	88.4 (1)	2.02	0.33
2	87.8 (1)	0.41	0.07
3	87.7 (1)	0.52	0.08
4	88.0 (1)	0.07	0.01
5	88.3 (1)	0.00	0.00
6	87.9 (2)	2.24	0.36
7	88.1 (2)	1.11	0.18
8	88.4	0.00	0.00
9	89.0	0.00	0.00
10	87.9 (2)	1.86	0.30
Drainage Channel	86.2		
River MP #1	89.2		
River MP #2	88.2		
River MP #3	87.0		

(1) Depth to water measured inside the GEOMON Groundwater Sampler/Piezometer (inlet screen is below solvent level).

(2) Calculated piezometric surface, assuming solvent S.G. = 0.87.


MW-5
W.E. 89.0
N
PROPERTY LINE
MW-1
W.E. 89.4
MANUFACTURING
TANKS
MW-2
W.E. 88.5
DRAINAGE CHANNEL
W.E. 85.8
W.E. 89.5
WELL 6
W.E. 88.0
MW-3
W.E. 88.3
INFILTRATION GALLERY
WELL 10
W.E. 88.7
FENCE
89.5
89.0
ROCKAWAY
WELL 9
W.E. 89.5
WELL 7
W.E. 88.8
MW-4
W.E. 88.8
88.5
WELL 8
W.E. 88.4
W.E. 87.1
RIVER
W.E. 88.6
LEGEND
WATER LEVEL CONTOURS DASHED WHERE INFERRED
SOLVENT SAT. SOIL THICKNESS DASHED WHERE INFERRED
2" Ø WELL
4" Ø WELL
W.E. WATER LEVEL ELEVATION
S.T. SOLVENT THICKNESS IN SOIL AT WELL (CALCULATED)
FILE NO. 83526
L.E. CARPENTER AND CO.
WHARTON NEW JERSEY
PIEZOMETRIC WATERLEVEL CONTOURS
DATE: 04/29/86
SCALE. 1" = 60'
GeoEngineering, Inc.
FIG. NO. 1



L.E. CARPENTER AND CO.

WHARTON NEW JERSEY

ISOPACHS OF CALCULATED THICKNESS OF SOLVENT-SATURATED SOIL

DATE: 04/29/86 SCALE: 1" = 60'

GeoEngineering, Inc. FIG. NO. 2

FILE NO. 83526

ROCKAWAY VALLEY REGIONAL SEWERAGE AUTHORITY

ANALYSIS OF TEST PIT SAMPLES - L. E. CARPENTER & COMPANY

ANALYSIS	SAMPLE #1 WATER PHASE	SAMPLE #1 MIXED PHASE	SAMPLE #2 WATER PHASE	SAMPLE #2 MIXED PHASE	SAMPLE #3 MIXED PHASE	SAMPLE #4 MIXED PHASE	SAMPLE #5 WATER PHASE	SAMPLE #6 WATER PHASE	SAMPLE #7 WATER PHASE	SAMPLE #8 WATER PHASE	SAMPLE #9 WATER PHASE
GENERAL											
pH	7.5	-	7.1	-	7.2	7.1					
COD	700.	24,000	170	17,500	290	80.	3.	857.	277.	94.	-
BOD	-	5,600	-	9,000	90	7.					
Oil & Grease	3,100	>20,000*	6,300	>20,000*	80	20.					
TDS	250.	-	110	-	240.	692.					
TVDS	80.	-	110	-	184.	294.					
ORGANICS											
Phthalic	30.	14,300	N	5,300	11.	1.2					
Esters	-	-	O	-	-	-					
Dioctyl Phthalate	25.	9,000	T	3,300	7.	0.8					
Dimethyl Phthalate	10.	3,600	AVAILABLE	1,300	3.	0.3					
Xylene	200.	6,200.	200.	1,900.	26.	< 0.10	0.002	100	2.5	0.004	0.003
Polyalkylene-Glycol	0.0	0.0	0.0	0.0	0.0	0.0					
Phenols	0.65	-	-	0.39	< 0.10	< 0.10					
HEAVY METALS											
Antimony	< 0.10	NOT	< 0.10	NOT	< 0.10	< 0.10					
Titanium	0.12	AVAILABLE	0.08	AVAILABLE	< 0.05	< 0.05					
Tin	< 0.20		< 0.20		< 0.20	< 0.20					
Cadmium	< 0.005	0.006	< 0.005	0.007	< 0.005	< 0.005					
Lead	< 0.02	0.04	< 0.02	< 0.020	0.155	< 0.020					
Nickel	< 0.005	0.065	< 0.005	0.045	< 0.005	< 0.005					
Zinc	0.020	0.166	0.019	0.125	0.037	< 0.005					
Mercury	< 0.0001	0.0008	< 0.0001	< 0.0001	0.0004	< 0.0001					
Arsenic	< 0.001	0.011	0.004	0.013	0.009	< 0.001					

NOTES:
1) Samples #1 through #4 collected 1/4/79
2) Samples #5 through #8 collected 3/16/79
3) Sample #9 collected 4/3/79
4) Sample #5 was taken from an open drainage ditch.

RESULTS IN MG/L

*APPROXIMATE OIL & GREASE VALUES

PLATE B